

M-249 AUTOMATIC RIFLEMAN QUALIFICATION COURSE

SCORECARDS

The trainer uses DA Form 7304-R (Scorecard for M249 AR) for recording the automatic rifleman's performance on the M249 AR qualification range. The instructions for completing the scorecard are on its reverse side.

M-249 Automatic Rifle (w/Bipod) LIN# M09009 Ref: FM 23-14 & DA PAM 350-38 Para. 5-6d.& ST 23-AIMSS

1. 80% of soldiers assigned M-249 AR must Zero and Qualify every 12 months.
2. Soldiers will fire 10m Zero/Qualification and Day Transition Fire with Iron Sight. (Chap. 5-21 to 5-27).
3. Soldiers assigned the Machinegun Optical Sight (MGO) will Zero and fire 10m and Day Transition Record Fire.
4. Soldiers assigned Thermal Weapon Sight (TWS) or Infrared Aiming Light (IAL) will fire Night Fire. (Chap. 5-28 & 5-29).
5. 10m Zero/Qualification will be fired on EST 2000, if available. EST 2000 currently unavailable to AZNG.

RANGE REQUIREMENTS Ref: TC 25-8 FCC17833 Multipurpose Machine Gun Range(MPMG)

1. 10M Zero- Florence Military Reservation, Ft. Huachuca, Camp Navaho (TY06)
2. MPMG(popups)- Florence Military Reservation, Camp Navajo TY07

FIRING INSTRUCTIONS- M249

1. The automatic rifleman indexes or places the elevation knob on a range of 700 meters.
2. He centers the rear peep sight, left to right, for windage.
3. There should be two threads exposed on the front sight post.
4. If the center of the group is to the left or right of the black aiming paster, the automatic rifleman must correct for windage.
Rotate the windage knob to move the peep sight in the direction of the desired change.
5. If the center of the shot group is above or below the aiming point, the automatic rifleman rotates the peep sight clockwise to lower the strike of the round or rotates the peep sight counterclockwise to raise the strike of the round.
6. There is no reason to record the 10-meter zero, because it applies only to firing at the 10-meter basic machine gun target
7. One automatic rifleman can use Sections A and B, while another uses Sections C and D of the same, 10m Basic Machinegun Target
8. Based on his METL, the commander selects either the bipod-supported prone position or bipod-supported fighting position for qualification

10m DAY FIRE- M249 Automatic Rifleman/ 108 rounds per Automatic Rifleman

Task 1 Zeroing- 12 single rounds

The automatic rifleman prepares the rear sight for zeroing(700m) and checks the front sight.

The automatic rifleman engages paster A1 with three single shots.

The automatic rifleman moves downrange to observe, mark, and triangulate the shot group.

Steps 1&2 are repeated for paster A2, making sight corrections as necessary.

If the automatic rifleman zeros his weapon using 9 rounds, he uses the remaining 3 to confirm his zero.

If he is unable to zero with 12 rounds, he is removed from the firing line for remedial training.

Task 2, Practice Controlled-Burst Firing- One 6 round belt

The automatic rifleman fires the first burst of three rounds at paster A3.

The automatic rifleman fires the second burst of three rounds at paster A4.

Task 3, Practice NBC Traverse and Search Fire- One 15 round belt

The tower operator gives the order to mask by stating GAS. Once the soldiers are masked and have their gloves on, he gives the fire command.

The trainer must allow enough time for the soldier to don this equipment.

Using the traverse and search technique, the automatic rifleman engages pasters A5 through A6, firing a three-round burst for each paster.

Once complete, the soldiers are given the order ALL CLEAR.

Task 4, Practice Traverse and Search Fire- One 24 round belt

The automatic rifleman engages pasters A7 through A8, firing a three-round burst at each paster, using the traverse and search technique.

The automatic rifleman may move downrange to observe and analyze his targets.

Task 5, Qualification Traverse and Search Fire- One 12 round belt.

The automatic rifleman engages pasters B1 through B4 in 20 seconds, firing a three-round burst at each paster.

Task 6, Qualification NBC Traverse and Search Fire- One 24 round belt.

The tower operator gives the order to mask by stating GAS. Once the soldiers are masked and have their gloves on, he gives the fire command.

Using the traverse and search technique, the automatic rifleman engages pasters B7 through B8 in 40 seconds, firing a three-round burst at each paster.

Once complete, the soldiers are given the order ALL CLEAR.

Task 7, Qualification Traverse and Search Fire- One 15 round belt .

Using the traverse and search technique, the automatic rifleman engages pasters B5 through B6 in 40 seconds, firing a three-round burst at each paster.

The automatic rifleman may move downrange to observe and analyze his target, but the coach scores it.

10-METER SCORING PROCEDURES

When scoring the 10-meter target, the trainer scores all scoring spaces (1 through 4, 5 through 6, and 7 through 8).

One point is given for each round impacting within each scoring space. The maximum point value is 3 points for each scoring space.

Rounds touching the line on the paster are considered a HIT.

When firing at 1 through 4 with a belt of 12 rounds, the maximum score the automatic rifleman can receive is 12 points.

When firing at pasters 5 through 6, he engages the five scoring spaces with a 15-round belt. The maximum score possible is 15 points.

When firing at pasters 7 through 8, the automatic rifleman engages the eight scoring spaces with 24 rounds with a maximum score of 24 points.

The total possible score is 51 points. A minimum of 35 points is required to qualify on the 10-meter course of fire.

Soldiers failing to achieve minimum standards must be retrained and retested. They do not go on to transition firing.

Penalties

Five points are deducted from the score of any gunner who fails to stop firing at the command or signal to cease fire.

. If a gunner fires at the wrong target or exercise, he loses the points for those rounds.
A gunner whose target was fired upon by another gunner is permitted to refire the exercise.

Stoppages

If a stoppage occurs, the gunner must apply immediate action. If the stoppage is reduced, he continues to fire the course.
If a stoppage occurs that cannot be reduced by immediate action, the gunner raises his hand and awaits assistance
Once he reduces the stoppage, the gunner completes firing, beginning with the next task.
If gunner error causes a stoppage, additional time is not allowed. He receives whatever score he earned before the stoppage occurred.
If the machine gun must be replaced, the gunner must zero it and fire the exercise again.
Gunner's that fail to complete a Task in the allowed time, due to malfunction, may elect to complete those Tasks in an Alibi run.
They only need to complete the unfinished Tasks during the Alibi.

TRANSITION DAY FIRE- M249 Automatic Rifleman

Each automatic rifleman fires the transition table twice, once for practice and once for qualification.
Based on his METL, the commander selects either the bipod-supported prone position or the bipod-supported foxhole firing position for qualification
Task 1, Field Zeroing the 300-Meter, Single E-Type Silhouette- One 12 round belt
The Automatic Rifleman places the rear sight on 300m and follows the Zeroing Procedures from 10m Firing.
The automatic rifleman fires a three-round burst at the target.
The automatic rifleman observes the beaten zone. If the rounds miss the target, he makes adjustments for windage and elevation.
After adjustments have been made, the automatic rifleman repeats with the remaining rounds until rounds are impacting on the target. He records his zero.
Task 2, 200-Meter, Single E-Type Silhouette- One 66 round belt/ Tasks 2-8.
The fire command is given only once for Tasks 2 through 8.
A 200-meter, single E-type target is exposed for 5 seconds.
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.
Task 3, 400-Meter, Double E-Type Silhouette.
The automatic rifleman continues to scan the sector.
A 400-meter, double E-type target is exposed for 10 seconds.
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.
Task 4, 100-Meter, Single E-Type Silhouette
The tower operator gives the order to mask by stating GAS. The automatic rifleman and coach put on their masks and gloves.
The trainer must allow enough time for the soldier to don this equipment.
The automatic rifleman continues to scan the sector.
A 100-meter, single E-type target is exposed for 10 seconds.
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.
Task 5, 300-Meter, Single E-Type Silhouette.
The automatic rifleman continues to scan the sector, while in protective mask and gloves.
A 300-meter, single E-type target is exposed for 15 seconds.
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.
Task 6, 100-Meter and 300-Meter, Single E-Type Silhouettes.
The automatic rifleman continues to scan the sector, while in protective mask and gloves.
A 100-meter and a 300-meter, single E-type target are exposed for 20 seconds.
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.
The tower operator gives the order ALL CLEAR. The automatic rifleman and coach restore their masks to their carriers and remove their gloves.
Task 7, 200-Meter Single E-Type and 400-Meter Double E-Type Silhouettes
The automatic rifleman continues to scan the sector
The 200-meter single E-type and the 400-meter double E-type targets are exposed for 20 seconds
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.
Task 8, 100- and 200-meter single E-type and 400-Meter Double E-Type Silhouettes.
The automatic rifleman continues to scan the sector.
The 100-meter and 200-meter single E-type and 400-meter double E-type targets are exposed for 25 seconds.
The automatic rifleman determines the range, places the proper setting on the rear sight and fires a three-round burst.
If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

SCORING

Five points are given for each target hit, whether hit on the first or second burst.
The total possible points are 55
The automatic rifleman must hit at least 7 (35 points) targets out of 11 exposures to qualify.
DA Form 7304-R is used to record scores

QUALIFICATION STANDARDS

Qualification with the M249 AR consists of achieving the minimum standards for 10-meter day and transition day firing tables.
One point is allowed for each round impacting within the scoring space (maximum of 3 for each space) for Firing Table I- 10m Qualification.
The maximum possible score for Firing Table I is 51 points. A minimum of 35 points is required.
For Firing Table II Transition Firing, 5 points are allowed for each target hit whether the target is hit on the first or second burst.
The maximum score for Table Firing II is 55 points; at least 35 points must be scored on this table to qualify.
The minimum total score is 70; the maximum total score is 106.

The overall ratings are as follows:

EXPERT	90-106
AUTOMATIC RIFLEMAN 1st CLASS	80-89
AUTOMATIC RIFLEMAN 2d CLASS	70-79
UNQUALIFIED	0-69

TRANSITION NIGHT FIRE M-249AR Ref: TC-23 AIMSS & FM 3-22.68 Appx. G

NOTES:

1. Prior to night qualification with the M249 machine gun, soldiers must attain the minimum standards for 10-meter day and transition day firing tables (refer to FM 3-22.68).
2. Although no night qualification standards are outlined in FM 3-22.68, STRAC authorizes ammunition for soldiers to qualify at night.
3. FM 3-22.68, TC-23 AIMSS and DA PAM 350-38 STRAC each list different and conflicting Night Qualification Courses of Fire.
4. Correspondence with 29th Infantry Regiment- Advanced Infantry Marksmanship Standards and Strategies (AIMSS) reflects that there currently is no resolution for the conflicts.
5. All three manuals will be revised in the future to resolve the conflicts.
6. Current guidance is for units to use whichever Course of Fire the local facilities can best support.
7. Training Site Command has adopted the Night Course of Fire detailed in TC-23 AIMSS.
8. The M249 with the AN/PAS-13 qualifies using the standard day table for M249 Automatic Rifle.
9. Mounting, Boresighting and Zero procedures are detailed in FM 3-22.68 Appx. G

TRANSITION NIGHT FIRE for AN/PAQ-4C, AN/PEQ-2A & ANPVS-4/

NOTE- Night Vision Sights or Aiming Lasers must be boresighted and zeroed before attempting to qualify.

Task 1, 200-Meter, Single E-Type Silhouette- One 66 round belt/ Tasks 2-8.

The fire command is given only once for Tasks 2 through 8.

A 200-meter, single E-type target is exposed for 10 seconds.

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

Task 2, 400-Meter, Double E-Type Silhouette.

(1) Automatic rifleman continues to scan the sector.

A 400-meter, double E-type target is exposed for 15 seconds.

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

Task 3, 100-Meter, Single E-Type Silhouette

The automatic rifleman continues to scan the sector.

A 100-meter, single E-type target is exposed for 10 seconds.

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

Task 4, 300-Meter, Double E-Type Silhouette.

The automatic rifleman continues to scan the sector.

A 300-meter, double E-type target is exposed for 15 seconds.

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

Task 5, 100-Meter Single E-Type and 300-Meter, Double E-Type Silhouettes.

The automatic rifleman continues to scan the sector.

A 100-meter single E-Type and a 300-meter, double E-type target are exposed for 25 seconds.

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

Task 6, 200-Meter Single E-Type and 400-Meter Double E-Type Silhouettes

The automatic rifleman continues to scan the sector

The 200-meter single E-type and the 400-meter double E-type targets are exposed for 25 seconds

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

Task 7, 100- and 200-meter Single E-type and 400-Meter Double E-Type Silhouettes.

The automatic rifleman continues to scan the sector.

The 100-meter and 200-meter single E-type and 400-meter double E-type targets are exposed for 30 seconds.

The automatic rifleman determines the range and fires a three-round burst.

If the automatic rifleman fails to hit the target, he fires another three-round burst using the adjusted aiming point method of fire adjustment.

SCORING

Scoring criteria for the M249 Automatic Rifle is 6 out of 11.